

Remarks

The various parts of the Office Action (and other matters, if any) are discussed below under appropriate headings.

Claim Rejections - 35 USC § 112

Claim 4 stands rejected under 35 USC §112, first paragraph. More particularly, the Examiner states that the limitation "introduced into the body by accident" is not clearly defined, and the Examiner requests clarification.

The term "introduced into the body by accident" refers to the unintentional introduction or mistaken introduction of the material into the body.

In view of the above clarification, withdrawal of the rejection of claim 4 is respectfully requested.

Claim Rejections - 35 USC § 102 and § 103

Claims 1-32 stand rejected under 35 USC §102(b) as being anticipated by *Keane* (U.S. 6,381,562). Withdrawal of the rejection is respectfully requested for at least the following reasons.

Claim 1 has been amended herein and now recites a computer-implemented method of dynamically modeling and displaying a passage of material or information between at least two spatially distributed objects in a body. The method includes:

- a) creating a first data set of entities between which material or information is transferred;
- b) creating a second data set of channels connecting the entities;
- c) creating a third data set of types of material or information that each entity transfers via each channel;
- d) creating a dynamic map that includes a list of active entities, wherein the dynamic map is communicatively coupled to the active entities so as to provide information thereto; and
- e) using the dynamic map in conjunction with the first, second, and third data sets to perform a simulation of the transfer of material or information between entities.

Support for the amendment to claim 1 can be found, for example, in paragraphs [0024]-[0030] and Fig. 4 of the application as published (US 2005/0186544).

Keane discloses a method for simulating a bio-transport system wherein one or more elements are characterized to represent a bio-transport system of an organism. One or more mathematical representations are constructed that model one or more bio-transport dynamics for each element based on the characterization of the elements to form a simulation model. *Keane*, however, has not been found to teach or suggest the creation of data sets for entities between which material or information is transferred,

channels connecting the entities, and types of material or information that each entity transfers via each channel, as recited in claim 1. Further, *Keane* has not been found to teach or suggest creating a dynamic map communicatively coupled to active entities, or using the dynamic map in conjunction with the three data sets to simulate the transfer of material or information between entities, as recited in claim 1.

Accordingly, withdrawal of the rejection of claim 1 is respectfully requested.

Claims 2-32 depend from claim 1 and, therefore, can be distinguished from *Keane* for at least the same reasons.

Accordingly, withdrawal of the rejection of claims 2-32 is respectfully requested.

New Claims

New claims 33-41 are submitted for favorable examination. Support for the new claims can be found, for example, in paragraphs [0024]-[0030], [0038], [0066]-[0068], and [0102] as well as Figs. 4 and 9 of the published application (US 2005/0186544).

Conclusion

In view of the foregoing, request is made for timely issuance of a notice of allowance.

Respectfully submitted,

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Date: August 17, 2007

/Kenneth W. Fafrak/